s/n: 09/939,422 date: 1-18-05

	slm or dmd or (spatial adj2 light adj2 mirror) or (digital adj2 mirror adj2 display) or micro\$2mirror or		
13009	(micro\$2electr\$5mechanical with (mirror or reflect\$3))	US-PGPUB; USPAT; IBM TDB	1/18/05 12:46
	1 and (magnet same coil same gimbal)	US-PGPUB; USPAT; IBM TDB	1/18/05 12:46
	("6369400").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	1/18/05 14:22
	("6369400").URPN.	USPAT	1/18/05 15:27
	("6467345").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	1/18/05 15:30
	("5606447").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	1/18/05 15:30
,	(("4479388") or ("5283491") or ("5606447") or		
	("5644177") or ("5867302") or ("6028689") or		
	("6094293") or ("6300733") or ("6369400") or		
10	("6483962")).PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	7/12/04 10:28
	coil with mirror with torsion\$5 with hinge	US-PGPUB; USPAT; IBM_TDB	7/12/04 10:27
	6388789 URPN.	USPAT	7/12/04 10:20
574	gimbal with coil	US-PGPUB; USPAT; IBM_TDB	7/12/04 8:30
	((359/223-226,290-	· · · · · -	
	291,295,298,302,315,318,850,871,872,877).CCLS.) and		
12	(gimbal with coil)	US-PGPUB; USPAT; IBM_TDB	7/12/04 8:30
369	(gimbal with coil) same magnet\$5	US-PGPUB; USPAT; IBM_TDB	7/12/04 8:29
	((359/223-226,290-		
	291,295,298,302,315,318,850,871,872,877).CCLS.) and		
12	((gimbal with coil) same magnet\$5)	US-PGPUB; USPAT; IBM_TDB	7/12/04 8:29
	(((359/223-226,290-		
	$291,\!295,\!298,\!302,\!315,\!318,\!850,\!871,\!872,\!877). CCLS.) \ \text{and} \\$		
	((gimbal with coil) same magnet\$5)) not (((359/223-		
	226,290-		
	291,295,298,302,315,318,850,871,872,877).CCLS.) and		
	((gimbal with coil) same mirror same magnet\$5))	US-PGPUB; USPAT; IBM_TDB	7/12/04 8:29
35	(gimbal with coil) same mirror same magnet\$5	US-PGPUB; USPAT; IBM_TDB	7/12/04 8:28
	((359/223-226,290-		
40	291,295,298,302,315,318,850,871,872,877).CCLS.) and	LIG BOOKE LIGHT INTO	74004004
	((gimbal with coil) same mirror same magnet\$5)	US-PGPUB; USPAT; IBM_TDB	7/12/04 8:24
	(oppos\$5 adj winding) same coil same magnet	US-PGPUB; USPAT; IBM_TDB	7/12/04 8:23
141	(opposite with winding) same coil same magnet	US-PGPUB; USPAT; IBM_TDB	7/12/04 8:07
4200	(359/223-226,290-	LIC DODUB, LICDAT, LICOOD, IDM TDD	7/40/04 0:00
4308	291,295,298,302,315,318,850,871,872,877).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	7/12/04 8:06
4510	(359/223-226,290- 291,295,298,302,315,318,850,871,872,877).CCLS.	US-PGPUB; USPAT; USOCR; IBM TDB	7/12/04 8:06
4312	((opposite with winding) same coil same magnet) and	03-PGPOB, 03PA1, 03OCK, IBM_1DB	1112104 0.00
	((359/223-226,290-		
2	291,295,298,302,315,318,850,871,872,877).CCLS.)	US-PGPUB; USPAT; IBM_TDB	7/12/04 8:06
	("6044705").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	7/12/04 7:09
•	(feedback with coil) and (((micro\$2mirror or ((micro adj	- CC , CI CD, CCI / (1, CCCC) (1, IDM_1DD	17127077.00
	electr\$4 adj mechanic\$4) same (mirror or reflect\$5)) or		
	(digital adj micro\$4 adj mirror) or DMD)) and		
7	(electr\$5magnet\$5))	US-PGPUB; USPAT; IBM_TDB	7/10/04 13:40
		· -	

	(micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4)		
6524	same (mirror or reflect\$5)) or (digital adj micro\$4 adj mirror) or DMD)	LIS DODLID: LISDAT: IDM. TDD	7/10/04 12:20
0034	((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4)	US-PGPUB; USPAT; IBM_TDB	7/10/04 13:39
	same (mirror or reflect\$5)) or (digital adj micro\$4 adj		
1166	mirror) or DMD)) and (electr\$5magnet\$5)	US-PGPUB; USPAT; IBM_TDB	7/10/04 13:39
1100	Thirtory or Dividy) and (electromagnets)	US-FGFOB, USFAT, IBM_TDB	7710/04 13.39
	(mirror or micro\$2mirror or (micro adj electr\$4 adj		
328735	· · · · · · · · · · · · · · · · · · ·	US-PGPUB; USPAT; IBM TDB	7/10/04 13:38
020,00	(micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		
9536	(digital adj micro\$4 adj mirror) or DMD)	US-PGPUB; USPAT; IBM TDB	7/10/04 13:38
	coil same magnet same (mirror or micro\$2mirror or	·	
	(micro adj electr\$4 adj mechanic\$4) or (digital adj		
1654	micro\$4 adj mirror) or DMD)	US-PGPUB; USPAT; IBM_TDB	7/10/04 13:37
32	feedback with (excitation adj coil)	US-PGPUB; USPAT; IBM_TDB	7/10/04 13:37
5679	feedback with coil	US-PGPUB; USPAT; IBM_TDB	7/10/04 13:37
2	((359/239).CCLS.) and (feedback with coil)	US-PGPUB; USPAT; IBM_TDB	7/10/04 13:37
	(feedback with (excitation adj coil)) and mirror	US-PGPUB; USPAT; IBM_TDB	7/10/04 13:36
	(359/239).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	7/10/04 13:36
	(feedback with (excitation adj coil)) and magnte\$5	US-PGPUB; USPAT; IBM_TDB	7/10/04 13:34
	feedback same angle same deflection same coil	US-PGPUB; USPAT; IBM_TDB	3/19/04 15:20
317	feedback same angle same deflection	US-PGPUB; USPAT; IBM_TDB	3/19/04 15:19
	(feedback same angle same deflection) and (mirror or		
	micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		
120	(digital adj micro\$4 adj mirror) or DMD)	US-PGPUB; USPAT; IBM_TDB	3/19/04 15:17
	(feedback same angle same deflection) and		
40	(micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		0/40/04 45:47
12	(digital adj micro\$4 adj mirror) or DMD)	US-PGPUB; USPAT; IBM_TDB	3/19/04 15:17
	((feedback same angle same deflection) and (mirror or		
	micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		
88	(digital adj micro\$4 adj mirror) or DMD)) not "359"/\$.ccls.	US-PGPUB USPAT IBM TDB	3/19/04 15:16
	((338/47).CCLS.) and torsion and angle	US-PGPUB; USPAT; IBM_TDB	3/19/04 15:15
	("5648618").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	3/19/04 15:10
	(338/47).CCLS.	US-PGPUB; USPAT; USOCR; IBM TDB	3/19/04 15:10
	6392220.URPN.	USPAT	3/19/04 11:23
51	5648618.URPN.	USPAT	3/19/04 11:20
1	("6580846").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	3/19/04 10:50
1	("6044705").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	3/19/04 10:50
	("4365863"   "5524153"   "6097858"   "6210401"		
5	"6344912").PN.	USPAT	3/19/04 10:39
	6580846.URPN.	USPAT	3/19/04 10:38
	(magnet\$5 adj actuator) and micromirror	US-PGPUB; USPAT; IBM_TDB	3/19/04 10:37
4	6181460.URPN.	USPAT	3/19/04 10:31
	(("4479388") or ("5283491") or ("5606447") or		
	("5644177") or ("5867302") or ("6028689") or	•	
4.4	("6094293") or ("6300733") or ("6369400") or		0/10/0/ 10 00
	("6483962")).PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	3/19/04 10:28
	("5778513").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	3/19/04 10:28
	6369400.URPN.	USPAT	3/19/04 10:26
1	6313905.PN.	USPAT	3/19/04 10:26

31 23	(array near2 mirror) and gimbal and coils and magnets 5969465.URPN. 5543956.URPN. 5107366.URPN.	US-PGPUB; USPAT; IBM_TDB USPAT USPAT USPAT	3/19/04 10:19 3/9/04 15:21 3/9/04 15:17 3/9/04 15:15
486	electromagnetic same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or pixel) (((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or	US-PGPUB; USPAT; IBM_TDB	3/9/04 15:13
64	(345/55,85,108,111)).CCLS.) and (electromagnetic same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or pixel)) ((((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or	US-PGPUB; USPAT; IBM_TDB	3/9/04 15:13
61	(345/55,85,108,111)).CCLS.) and (electromagnetic same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or pixel))) and coil\$3 (mirror or micro\$2mirror or (micro adj electr\$4 adj	US-PGPUB; USPAT; IBM_TDB	3/9/04 15:13
411991	mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or pixel) ((((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD	US-PGPUB; USPAT; IBM_TDB	3/9/04 15:11
25	or pixel)) and (feedback with deflection with detect\$5)) and mirror) and magnet	US-PGPUB; USPAT; IBM_TDB	3/9/04 15:11
108	((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or pixel)) and (feedback with deflection with detect\$5) (((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or pixel)) and (feedback with deflection with detect\$5))	US-PGPUB; USPAT; IBM_TDB	3/9/04 15:05
94	and mirror	US-PGPUB; USPAT; IBM_TDB	3/9/04 15:05
22	((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or pixel)) and (feedback with angular with deflection) ((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD	US-PGPUB; USPAT; IBM_TDB	3/9/04 15:04
464	or pixel)) and (feedback with deflection) ("4229081"   "4317611"   "4580873"   "4725127"   "5042889"   "5216490"   "5579148"   "5729642"   "5808780"   "5912608"   "5923798"   "5956292"	US-PGPUB; USPAT; IBM_TDB	3/9/04 15:04
6 1 1 30 2	"6005993"   "6031947"   "6049404").PN. 6388789.URPN. ("5912608").PN. ("5629790").PN. 6201629.URPN. ("5606447"   "5912608").PN. 6122089.URPN.	USPAT USPAT US-PGPUB; USPAT; USOCR; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB USPAT USPAT USPAT	3/9/04 14:10 3/9/04 14:09 3/9/04 14:04 3/9/04 14:04 3/9/04 13:50 3/9/04 13:44 3/9/04 13:44

,

	(((mirror or micro\$2mirror or (micro adj electr\$4 adj		
	mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD		
	or pixel)) and ((electro\$2magnetic adj actuator) same		
34	(permanent adj magnet))) and array	US-PGPUB; USPAT; IBM_TDB	3/9/04 13:42
	5912608.URPN.	USPAT	3/9/04 13:42
	(electro\$2magnetic adj actuator) same (permanent adj		0.0.0.12
353	magnet)	US-PGPUB; USPAT; IBM_TDB	3/9/04 13:33
555	((mirror or micro\$2mirror or (micro adj electr\$4 adj	00-1 01 0B, 001 A1, 1BM_1BB	0/9/04 10:55
	mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD		
	or pixel)) and ((electro\$2magnetic adj actuator) same	•	
70	, .,	LIS DODUB: LISBAT: IBM TDB	3/9/04 13:33
	(permanent adj magnet))	US-PGPUB; USPAT; IBM_TDB	3/9/04 13.33
	.(((359/223-226,290-		
	291,295,298,302,315,318,850,871,872,877) or		
	(345/55,85,108,111)).CCLS.) and (((micro\$2mirror or		
	((micro adj electr\$4 adj mechanic\$4) with mirror) or		
	(digital adj micro\$4 adj mirror) or DMD or pixel)) and		
15	(electro\$2magnetic adj actuator))	US-PGPUB; USPAT; IBM_TDB	3/9/04 13:32
	((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4)		
	with mirror) or (digital adj micro\$4 adj mirror) or DMD or		
122	pixel)) and (electro\$2magnetic adj actuator)	US-PGPUB; USPAT; IBM_TDB	3/9/04 13:27
	(micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4)		
	with mirror) or (digital adj micro\$4 adj mirror) or DMD or		
127347	pixel)	US-PGPUB; USPAT; IBM_TDB	3/9/04 13:26
4537	electro\$2magnetic adj actuator	US-PGPUB; USPAT; IBM_TDB	3/9/04 13:26
	("4229732"   "4441791"   "5172262"   "5311360"		
	"5517359"   "5610757"   "5661592"   "5748172"		
	"5768009"   "5867302"   "5926309"   "5999303"		
	"6025951"   "6028689"   "6445502"   "2001/0028756"		
15	"2002/0031305").PN.	USPAT	3/9/04 11:17
	("4421381"   "5629790"   "5748172").PN.	USPAT	3/9/04 11:12
	Asada-Norihiro.in. and mirror	EPO; JPO	3/9/04 11:09
	("5748172").PN.	US-PGPUB; USPAT; USOCR; IBM TDB	3/9/04 11:09
1		EPO: JPO	3/9/04 11:07
66	Asada-Norihiro.in.	EPO; JPO	3/9/04 11:07
	WO00/50950	US-PGPUB; USPAT; IBM TDB	3/9/04 11:06
	WO00/50950	EPO; JPO	3/9/04 11:06
	((345/111).CCLS.) and mirror	US-PGPUB; USPAT; IBM_TDB	3/9/04 11:05
	5748172.URPN.	USPAT	3/9/04 11:01
	(345/111).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	3/9/04 10:58
100	· ·	US-PGPUB, USPAT, USOCK, IBINI_TDB	3/3/04 10.56
	(((359/223-226,290-		
	291,295,298,302,315,318,850,871,872,877) or		
	(345/55,85,108,111)).CCLS.) and ((mirror or		
0004	micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or	LIO DODLID, LIODAT, IDM. TDD	0/0/04 40:57
3964	(digital adj micro\$4 adj mirror) or DMD or pixel))	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:57
	("5498312"   "5606447"   "6295154"   "6430332"		
	"2001/0022682"   "2002/0018615"   "2002/0034024"		
_	"2002/0034026"   "2002/0070335"   "2002/0074310"	LICOAT	0.10.10.4.4.5.77
4	"2002/0075553"   "2002/0118429").PN.	USPAT	3/9/04 10:57
	, , , , , , , , , , , , , , , , , , ,		
A4-2-	(mirror or micro\$2mirror or (micro adj electr\$4 adj		0/0/01/12/27
315435	mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD)	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:37

	(micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD or pixel) with array	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:37
39	((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD) with array) and ((coil or winding) same magnet) (((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:36
677	(345/55,85,108,111)). CCLS.) and ((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD or pixel) with array) ((coil or winding) same (array near2 magnet)) and ((((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:36
. 0	(345/55,85,108,111)).CCLS.) and ((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD or pixel) with array))	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:36
0	((coil or winding) same (array near2 magnet)) and (((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD) with array) and ((coil or winding) same magnet)) ((((359/223-226,290-204,205,200,205,206,207,207,207,207,207,207,207,207,207,207	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:36
	291,295,298,302,315,318,850,871,872,877) or (345/55,85,108,111)).CCLS.) and ((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD or pixel) with array)) and ((coil or winding) same magnet)	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:36
1640	(micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD) with array ((359/223-226,290-	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:35
. 4992 638	291,295,298,302,315,318,850,871,872,877) or (345/55,85,108,111)).CCLS. (coil or winding) same (array near2 magnet) ((coil or winding) same (array near2 magnet)) and ((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4)	US-PGPUB; USPAT; USOCR; IBM_TDB US-PGPUB; USPAT; IBM_TDB	3/9/04 10:35 3/9/04 10:30
0	with mirror) or (digital adj micro\$4 adj mirror) or DMD) with array) ((coil or winding) same (array near2 magnet)) and ((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4)	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:29
	with mirror) or (digital adj micro\$4 adj mirror) or DMD or pixel))	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:27

((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD or pixel)) not (((359/223-226,290-291,295,298,302,315,318,850,871,872,877).CCLS.) and ((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD)) 127345 and ((coil or winding) same (array near2 magnet)))	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:27
(((coil or winding) same (array near2 magnet)) and ((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD or pixel))) not (((359/223-226,290-291,295,298,302,315,318,850,871,872,877).CCLS.) and ((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD)) and ((coil or winding) same (array near2 magnet)))	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:27
((359/223-226,290-291,295,298,302,315,318,850,871,872,877).CCLS.) and ((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD)) 3 and ((coil or winding) same (array near2 magnet)) (coil same magnet same (mirror or micro\$2mirror or	US-PGPUB; USPAT; IBM_TDB	3/9/04 10:24
(micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or (spatial adj light adj 52 modulator) or SLM)) and (array near2 magnets) 1 6144119.URPN. ("3851196"   "4555650"   "4654571"   "5153494"   "5196745"   "5334892"   "5528118"   "5623853"   10 "5715037"   "5773837").PN.	US-PGPUB; USPAT; IBM_TDB USPAT USPAT	3/9/04 10:19 3/9/04 8:43 3/9/04 8:43
(coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or (spatial adj light adj 104 modulator) or SLM)) and (inner same outer same frame) ((coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj		3/9/04 8:39
micro\$4 adj mirror) or DMD or (spatial adj light adj modulator) or SLM)) and (inner same outer same 1 frame)) and (array near2 magnets) (coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj	US-PGPUB; USPAT; IBM_TDB	3/9/04 8:39
micro\$4 adj mirror) or DMD or (spatial adj light adj 115 modulator) or SLM)) and gimbal coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or (spatial adj light adj	US-PGPUB; USPAT; IBM_TDB	3/9/04 8:38
1658 modulator) or SLM)	US-PGPUB; USPAT; IBM_TDB	3/9/04 8:35

((coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or (spatial adj light adj modulator) or SLM)) and gimbal) and (array with 8 magnets)

US-PGPUB; USPAT; IBM\_TDB

3/9/04 8:35